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*North America's Leader in Hazardous Material Information Management*  
*1905 Aston Avenue, Carlsbad, CA 92008*  
*Phone (800) 451-8346 Fax (760) 602-8888*

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## MSDS PRODUCT INFORMATION

Date: 10/07/2005  
To: MSDS Requester  
From: 3E Company  
Subject: The MSDS you have requested

☐ MSDS NOT REQUIRED

In response to your request for a Material Safety Data Sheet, according to the OSHA Hazard Communication Standard (Right-to-Know), the following item is an article. Articles are defined in 29 CFR 1910.1200(c). Products such as Drugs, cosmetics, food, or alcoholic beverages, wood or wood products, and tobacco or tobacco products, as defined in 29 CFR 1910.1200(b)(6), are exempt from the Hazard Communication Standard. Items that are considered articles, as defined in 29 CFR 1910.1200(c), are also exempt from this Standard. Therefore, the manufacturer is not required to provide an MSDS for this product.

☒ MSDS DISCONTINUED PRODUCT

In response to your request for a Material Safety Data Sheet, the manufacturer has discontinued the product listed below. The MSDS Attached is the most current version, or an MSDS is no longer available.

☐ MSDS BEST COPY AVAILABLE

The MSDS attached is the best copy available from the manufacturer.

☐ MANUFACTURER NO LONGER IN BUSINESS

In response to your request for a Material Safety Data Sheet, a current MSDS could not be obtained for this product. It has been determined that the manufacturer listed below is no longer in business. A current address and phone number could not be located.

Manufacturer: Behr Process Corporation  
Product Name: E Phthalocyanine Blue No. 45604 (DISCONTINUED)

Code: 790-749  
Date: 22 JAN 1997  
Printed: 22 JAN 1999

## ENGELHARD MATERIAL SAFETY DATA SHEET

Product: E PHTHALOCYANINE BLUE NO. 45604

### SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Common Name : UNIVERSAL DISPERSION OF C I. PIGMENT BLUE 15:2  
Chemical Name : UNIVERSAL DISPERSION OF C I PIGMENT BLUE 15.2  
Formula : CHEMICAL MIXTURE  
Product CAS No.: CHEMICAL MIXTURE  
Product Use : Industrial pigment

Supplier : ENGELHARD CORPORATION, PIGMENTS & ADDITIVES GROUP  
Address : 101 WOOD AVENUE  
City, St, Zip : ISELIN, NJ 08830-0770  
Phone : 1-732-325-6913 FOR CUSTOMER SERVICE  
1-502-775-7288 FOR ENVIRONMENT, HEALTH, AND SAFETY

FOR CHEMICAL EMERGENCY CALL CHEMTREC (24 HOURS):  
1-800-424-9300 (US, Canada, Puerto Rico, Virgin Islands)  
1-202-463-7616 (Outside Above Area)

### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	% Wt.
C.I. PIGMENT BLUE 15:2	147-14-8	5 - 15
MAGNESIUM SILICATE	14807-96-6	25 - 40
WATER	7732-18-5	10 - 20
DIETHYLENE GLYCOL	111-46-6	10 - 20

ETHYLENE GLYCOL

107-21-1

10 - 20

ETHOXYLATED NONYL PHENOL

9016-45-9

1 - 5

NOTE: See Section 8 for Exposure Limits and Section 11 for Toxicological Information.

### SECTION 3: HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Blue liquid

Odorless

Flash Point: Not Determined

May cause eye irritation and burns.

Overexposure may cause damage to the liver, kidneys and the nervous system

May cause skin and respiratory tract irritation.

Not a fire or explosion hazard

#### ROUTES OF ENTRY

Eyes? YES

Skin? YES

Inhalation? YES

Ingestion? YES

#### POTENTIAL HEALTH EFFECTS

EYE CONTACT causes irritation and may cause burns.

SKIN CONTACT. Prolonged or repeated contact may cause irritation. Toxic amounts may be absorbed through the skin.

INHALATION: At room temperatures, exposures to vapors or mists are unlikely. Higher temperatures may generate vapors or mists sufficient to cause drowsiness and headache.

INGESTION may cause gastrointestinal irritation and kidney damage due to DIETHYLENE GLYCOL content. ETHYLENE GLYCOL content may cause central nervous system depression, blood changes, and kidney damage.

NOTE. Laboratory animal studies indicate that GLYCOL ETHERS may cause reproductive effects.

NOTE: In laboratory animals, inhalation and/or ingestion of ETHYLENE

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GLYCOL has caused fetal effects.

NOTE: Inhalation of vapor and/or mist may be significant if material is heated or agitated/sprayed.

**CARCINOGENICITY**

NTP? NO

IARC? NO

OSHA? NO

**CHRONIC HEALTH HAZARDS**

Excessive exposure by any route may cause degeneration of the kidney and, to a lesser extent, the liver. In animal studies, formation of bladder stones and secondary bladder cancer has been observed.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

May adversely affect existing medical conditions such as renal, hepatic and neurological disorders.

NOTE: See Section 8 for Exposure Limits, Section 11 for Toxicological Information and Section 12 for Ecological Information.

**SECTION 4: FIRST AID MEASURES**

**EYE CONTACT:** Flush eyes with plenty of water. If irritation develops, call a physician.

**SKIN CONTACT:** Procedures normally not needed. If skin contact occurs flush with plenty of water. If irritation develops, call a physician.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician.

**INGESTION:** Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration.

**SECTION 5: FIRE-FIGHTING MEASURES**

Flash Point: Not Determined  
Auto-Ignition: Not Determined  
LEL: Not Determined  
UEL: Not Determined

**NIFFA HAZARD CLASSIFICATION**

Health: 1                      Flammable: 0                      Reactivity: 0

**HMIS HAZARD CLASSIFICATION**

Health: 2\*                      Flammable: 0                      Reactivity: 0

\* Indicates the possibility of chronic health effects. See Chronic Health Hazards in Section 3 for more information.

**EXTINGUISHING MEDIA**

Use water, carbon dioxide or foam.

**SPECIAL FIRE FIGHTING PROCEDURES**

Wear NIOSH/MSHA approved positive-pressure self-contained breathing apparatus and protective clothing as specified in 29 CFR 1910.156.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Not a fire or explosion hazard.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

Contain spillage, soak up with inert absorbent and scoop into container for disposal. Notification of the National Response Center (800/424-8802) may be required. Refer to EPA, DOT and applicable state and local regulations for current response information.

It is recommended that each user establish a spill prevention, control and countermeasure plan (SPCC). Such plan should include procedures applicable to proper storage, control and clean-up of spills, including reuse or disposal as appropriate (see Section 13: Disposal Considerations).

**\*\*NOTE\*\*** In the event of an accidental release of this material, the above procedures should be followed. Additionally, proper exposure controls and personal protection equipment should be used (see Section 8: Exposure Control/Personal Protection), and disposal of the material should be in accordance with Section 13: Disposal Considerations.

**SECTION 7: HANDLING AND STORAGE**

Wash thoroughly after handling.  
Keep away from food and feed products.  
Keep container closed.  
Protect from freezing.

Avoid breathing vapors or mists.

Avoid contact with eyes, skin and clothing.

Use with adequate ventilation.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
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EXPOSURE LIMITS

INGREDIENT	PEL-OSHA	TLV-ACGIH
C.I. PIGMENT BLUE 15.2 CAS NO.: 147-14-8	None Established	None Established
MAGNESIUM SILICATE CAS NO.: 14807-96-6	2 mg/m <sup>3</sup> (Containing no asbestos fibers, respirable dust)	2 mg/m <sup>3</sup> (Containing no asbestos fibers, respirable dust)
WATER CAS NO.: 7732-18-5	None Established	None Established
DIETHYLENE GLYCOL CAS NO.: 111-46-4	None Established	None Established
ETHYLENE GLYCOL CAS NO.: 107-21-1	50 ppm Ceiling	39.4 ppm Ceiling
ETHOXYLATED NONYL PHENOL CAS NO.: 9016-45-9	None Established	None Established

Unless otherwise noted, all values are reported as 8-hour Time-Weighted Averages (TWAs) and total dust (particulates only). All ACGIH TLVs refer to the 1998 Standards. All OSHA PELs refer to 29 CFR Part 1910 Air Contaminants. Final Rule, January 19, 1989.

RESPIRATORY PROTECTION

A NIOSH/MSHA-approved respirator as necessary.

VENTILATION

General; local exhaust as necessary to control vapors and/or mists.

**PROTECTIVE EQUIPMENT**

Chemical goggles.  
Rubber or neoprene gloves.

**PERSONNEL SAMPLING PROCEDURE**

For ETHYLENE GLYCOL: Refer to NIOSH Manual of Analytical Methods (NMAM), 4th Edition, Method 5523.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Blue liquid  
Odor: Odorless  
Boiling Point: Not Applicable  
Specific Gravity ( $H_2O=1$ ): 1 to 2  
Melting Point: Not Applicable  
Vapor Pressure (mm Hg) < 17.5 mm Hg at 20°C  
Vapor Density (Air=1): Not Applicable  
Evaporation Rate: Much < 1  
% Solubility in Water: Dispersible  
pH: 8 to 10

**SECTION 10: STABILITY AND REACTIVITY**

Stability: Generally considered stable.  
Avoid: None expected.

**INCOMPATIBILITY (Materials to Avoid)**

None expected.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS**

None expected.

Polymerization: Polymerization is not expected to occur.  
Avoid: Not applicable.

**SECTION 11: TOXICOLOGICAL INFORMATION**

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CHEMICAL NAME	% Wt.	LD50	LC50
C.I. PIGMENT BLUE 15:2 CAS NO.: 147-14-8	5 - 15	> 5000 mg/kg RAT, oral	Not Available
MAGNESIUM SILICATE CAS NO.: 14807-96-6	25 - 40	Not Available	Not Available
WATER CAS NO.: 7732-18-5	10 - 20	Not Available	Not Available
DIETHYLENE GLYCOL CAS NO.: 111-46-6	10 - 20	21,000 mg RAT, oral	Not Available
ETHYLENE GLYCOL CAS NO.: 107-21-1	10 - 20	5,500 mg/kg CHILD, oral	Not Available
ETHOXYLATED NONYL PHENOL CAS NO.: 9016-45-9	1 - 5	1,310 mg/kg RAT, oral	Not Available

NOTE: See Sections 9 and 12 for additional information.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY

No data available.

ENVIRONMENTAL FATE

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

US EPA Waste Number: Not Regulated

Federal, state and local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation procedure. All waste materials should be reviewed to determine the applicable hazards (testing may be necessary). Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal.



selected.

**\*\*NOTE\*\*** Chemical additions, processing or otherwise altering this material may make the waste management information presented above incomplete, inaccurate or otherwise inappropriate.

As local regulations may vary; all waste must be disposed/recycled/reclaimed in accordance with federal, state, and local environmental control regulations.

**SECTION 14: TRANSPORT INFORMATION**

**INTERNATIONAL**

UN Number: Not Regulated

**UNITED STATES**

EPA Waste Number: Not Regulated  
DOT Classification: Not Regulated

**CANADA**

PIN Number: Not Regulated  
TDG Class: Not Regulated

**EC**

DGL: Not Determined

**SECTION 15: REGULATORY INFORMATION**

**US FEDERAL REGULATIONS**

**TSCA:** IN TSCA

**SARA 311 AND 312 HAZARD CATEGORIES**

IMMEDIATE (Acute) Health Hazard: YES  
DELAYED (Chronic) Health Hazard: YES  
FIRE Hazard: NO  
REACTIVITY Hazard: NO  
Sudden Release of PRESSURE: NO

**SARA SECTION 313 NOTIFICATION**

This product contains a toxic chemical (or chemicals) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

CHEMICAL NAME	CAS Number	% Wt.
ETHYLENE GLYCOL	107-21-1	10 - 20

**OZONE DEPLETING SUBSTANCES (ODS)**

This product neither contains nor is manufactured with an ozone depleting substance subject to the labelling requirements of the Clean Air Act Amendments 1990 and 40 CFR Part 82.

**VOLATILE ORGANIC COMPOUNDS (VOC)**

448 g/L

**US STATE REGULATIONS**

CALIFORNIA: The State of California has a regulation (Proposition 65) which identifies specific chemicals known to the State of California to cause cancer or birth defects. Proposition 65 requires a disclosure for products sold within the State of California containing an identified chemical. The following information is required by the State of California for this product:

\*WARNING: This product contains chemicals known to the State of California to cause cancer

VOLATILE ORGANIC COMPOUND (CARB). 591 g/L

**CANADIAN REGULATIONS**

DSL/NDL: DSL  
WHMIS Classification. Not Determined

**EUROPEAN REGULATIONS**

EINECS: Yes

**OTHER REGULATIONS**

MITI (Japan): No

AICS (Australia): Yes

**SECTION 16: OTHER INFORMATION**

**REVISIONS**

Revision Number: 4

This MSDS has been revised in the following section(s):

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS  
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION  
SECTION 11: TOXICOLOGICAL INFORMATION  
SECTION 15: REGULATORY INFORMATION  
LABEL COPY

**PREPARATION INFORMATION**

Prepared By: Corporate Environment, Health & Safety Group  
Phone Number: See Section 1

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The information in this Material Safety Data Sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations, and management and for persons working with or handling this product. The information presented in the MSDS is premised upon proper handling and anticipated uses and is for the material without chemical additions/alterations. We believe this information to be reliable and up-to-date as of the date of publication, but make no warranty that it is. Additionally, if this Material Safety Data Sheet is more than three years old, please contact the supplier at the phone number listed in Section 1 to make certain that this sheet is current. Copyright Engelhard Corporation. License granted to make unlimited copies for internal use only. End of MSDS.....